



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

648.4704

Job Sheet 180402



004949

Part No: 648.4704

Job Qty: 1 ea

Part Name: C45 Overhaul



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 7/5/18

Job Tracking No:

Due Date: 8/7/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG OM & OOPM-C45 Rev 4 (648.4704) IPP Rev A 18.04.27 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		8/7/18	0.00	0.00	Start Up Small Fab-3		M.L.
100	Small Fab	1 pcs		8/7/18	0.00	1.00	Small Fab-3		DAS
120	QC	1 pcs		8/7/18	0.00	0.00	QC4		38
121	DC	1 pcs		8/7/18	0.00	0.00	DC		M.L.
130	Packaging	1 pcs		8/7/18	0.00	0.00	Packaging3-1		1989
140	QC21-FG	1 Ea		8/7/18	0.00	0.00	QC21		DAS

Part Op 100 - Pick bag and tag

Descriptions: 121 - Supply owner's & overhaul procedures manual

21
90/99
L.A sold
AUG 27 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
NAS1149F0463P	Washer	3 Ea (3 ea)	90-Start up Operation	5078780
NAS1149F0563P	Washer	8 Ea (8 ea)	90-Start up Operation	5067901
188-FPSS-1/4-20-3/8	see P/N 188-FPSS-1/4-20-3/8	2 Ea (2 ea)	100-Small Fab	5075264
188-FSCS-1032-5/8	Screw	4 Ea (4 ea)	100-Small Fab	5078378
600.1309-A	Label	1 Ea (1 ea)	100-Small Fab	
600.1312	Caution Sticker	1 Ea (1 ea)	100-Small Fab	5078105
AN4-23A	Bolt	2 Ea (2 ea)	100-Small Fab	5123434
AN5-21A	Bolt	4 Ea (4 ea)	100-Small Fab	5093603
C2-14-2	Label Rivets	2 Ea (2 ea)	100-Small Fab	5040661
C45-10-1	Spring Pin	1 Ea (1 ea)	100-Small Fab	5040658
C45-10-2	Lock Spring	1 Ea (1 ea)	100-Small Fab	5099970
C45-11-2	Locating Pin	2 Ea (2 ea)	100-Small Fab	5054816
C45-12-1	Lock Bushing	2 Ea (2 ea)	100-Small Fab	5091795
C45-12-6	Retaining Ring	2 Ea (2 ea)	100-Small Fab	5054986
C45-13-1	Keeper Bushing	2 Ea (2 ea)	100-Small Fab	5101278
C45-13-2	Spacer	2 Ea (2 ea)	100-Small Fab	5097746
C45-13-5	Keeper Spring	1 Ea (1 ea)	100-Small Fab	5089308
C45-3-1	Radial Bearing	2 Ea (2 ea)	100-Small Fab	5091767
C45-3-12	DU Bearing	1 Ea (1 ea)	100-Small Fab	5091768
C45-3-2-1	Snap Ring	2 Ea (2 ea)	100-Small Fab	5097898
C45-3-4-1	Retaining Ring	4 Ea (4 ea)	100-Small Fab	5068056
C45-3-5	Spacer	2 Ea (2 ea)	100-Small Fab	5097745
C45-3-8A	Actuator Shaft Bushing	1 Ea (1 ea)	100-Small Fab	5076197

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																																																															
Date : _____		Step #: _____		MRB (QSI042) Approval																																																																																																															
Description: _____ Container No: S101207 Part: 048-4704 Job No: 180402 Serial No./Batch: S101207 Revision: A Inspection: _____ Exp Date: _____ Instructions: _____ Date: 08/10/18		HART AEROSPACE Halesbury, ON K6A 1K7 CANADA Tel: 1 813 632-5200 Email: sales@dartaero.com www.dartaerospace.com		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left;">Root Cause</th> </tr> </thead> <tbody> <tr> <td style="width:15%;">Environment</td> <td style="width:15%;">☐</td> <td style="width:15%;">No Re-vel</td> <td style="width:15%;">☐</td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> </tr> <tr> <td>Design</td> <td>☐</td> <td>Operator</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Doc/Data</td> <td>☐</td> <td>Offset/Set</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Equip/Tooling</td> <td>☐</td> <td>Supplier</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Handling/Pre</td> <td>☐</td> <td>Training</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Material</td> <td>☐</td> <td>Use for Test</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Internal Transport</td> <td>☐</td> <td>Poor Information</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tribal Knowledge</td> <td>☐</td> <td>Rushing</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LOA</td> <td>☐</td> <td>Product Improvement</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Substation</td> <td>☐</td> <td>Process Improvement</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Past Expiry Date</td> <td>☐</td> <td>Manufacturing Process</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Misidentified</td> <td>☐</td> <td>Past Due</td> <td>☐</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4"></td> <td colspan="4">OTHER : _____</td> </tr> </tbody> </table>								Root Cause				Environment	☐	No Re-vel	☐					Design	☐	Operator	☐					Doc/Data	☐	Offset/Set	☐					Equip/Tooling	☐	Supplier	☐					Handling/Pre	☐	Training	☐					Material	☐	Use for Test	☐					Internal Transport	☐	Poor Information	☐					Tribal Knowledge	☐	Rushing	☐					LOA	☐	Product Improvement	☐					Substation	☐	Process Improvement	☐					Past Expiry Date	☐	Manufacturing Process	☐					Misidentified	☐	Past Due	☐									OTHER : _____			
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C45-3-8B	Actuator Shaft Bushing	1 Ea (1 ea)	100-Small Fab
C45-3-9	Lever Spring	1 pcs (1 ea)	100-Small Fab
C45-4-1	Trunnion Bushing	2 Ea (2 ea)	100-Small Fab
C45-5-1	Lever Stop Pin	1 Ea (1 ea)	100-Small Fab
C45-7-1P	LOADBEAM BUMPER	1 Ea (1 ea)	100-Small Fab
C45-7-2	Lock Bumper	2 Ea (2 ea)	100-Small Fab
C45-8-4	Solenoid Cover Gasket	1 Ea (1 ea)	100-Small Fab
MS21044N5	Nut	4 Ea (4 ea)	100-Small Fab
MS27039-4-08	Screw	1 Ea (1 ea)	100-Small Fab

5078801

5089520

~~5075347~~

5040657

5029332

5095587

5094821

5097089

5097087

5078803

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	NAS1149F0463P	3	747	0
	NAS1149F0563P	8	626	0
100-Small Fab	188-FPSS-1/4 20-3/8	2	0	0
	188-FSCS-1032-5/8	4	377	0
	600.1309-A	1	0	0
	600.1312	1	22	0
	AN4-23A	2	588	0
	AN5-21A	4	73	0
	C2-14-2	2	206	0
	C45-10-1	1	91	0
	C45-10-2	1	11	0
	C45-11-2	2	78	0
	C45-12-1	2	16	0
	C45-12-6	2	84	0
	C45-13-1	2	13	0
	C45-13-2	2	82	0
	C45-13-5	1	95	0
	C45-3-1	2	18	0
	C45-3-12	1	12	0
	C45-3-2-1	2	54	0
	C45-3-4-1	4	156	0
	C45-3-5	2	78	0
	C45-3-8A	1	57	0
	C45-3-8B	1	38	0
	C45-3-9	1	0	0
	C45-4-1	2	48	0
	C45-5-1	1	41	0
	C45-7-1	1	0	0
	C45-7-2	2	12	0
	C45-8-4	1	0	0
	MS21044N5	4	139	0
	MS27039-4-08	1	78	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								